## WHAT IS CLAIMED IS:

1	1. A method for enhancing delivery of a compound into and across an
2	animal ocular tissue, the method comprising:
3	administering to the ocular tissue a conjugate comprising the compound and a
4	delivery-enhancing transporter,
5	wherein:
6	i. the compound is attached to the delivery-enhancing transporter
7	through a linker, and
8	ii. the delivery-enhancing transporter comprises fewer than 50 subunits
9	and comprises at least 5 guanidino or amidino moieties, thereby increasing delivery of the
10	conjugate into the ocular tissue compared to delivery of the compound in the absence of the
11	delivery-enhancing transporter.
1	2. The method of claim 1, wherein delivery of the conjugate into the
2	ocular tissue is increased at least two-fold compared to delivery of the compound in the
3	absence of the delivery-enhancing transporter.
1	3. The method of claim 1, wherein delivery of the conjugate into the
2	ocular tissue is increased at least ten-fold compared to delivery of the compound in the
3	absence of the delivery-enhancing transporter.
1	4. The method of claim 1, wherein the ocular tissue is one or more layers
2	of epithelial or endothelial tissue.
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1	5. The method of claim 1, wherein the ocular tissue is the retina.
1	6. The method of claim 1, wherein the ocular tissue is the optic nerve.
1	7. The method of claim 1, wherein the linker is a releasable linker.
1	8. The method of claim 7, wherein the linker is stable in a saline solution a
2	pH 7 but is cleaved when transported into a cell.

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- 9. The method of claim 1, wherein the subunits are amino acids.
- 1 10. The method of claim 1, wherein the conjugate has a structure selected
- 2 from the group consisting of structures 3, 4, or 5, as follows:

$$R^{1}$$
— $X$ —— $(CH_{2})_{k}$ — $A$ — $C$ — $(CH_{2})_{m}$ — $N$ — $(CH_{2})_{n}$ — $Y$ — $R^{3}$ 

3  $R^{1}-X---(CH_{2})_{k}-R^{4}-(CH_{2})_{m}-CH-Y-R^{3}$ 

**4** 

$$R^{1}$$
 $X-(CH_{2})_{k}$ 
 $R^{1}$ 
 $CH-Y-R^{3}$ 

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7 wherein:

8 R<sup>1</sup> comprises the compound;

Y is a linkage formed between a functional group on the biologically active compound and a terminal functional group on the linking moiety;

Y is a linkage formed from a functional group on the transport moiety and a functional group on the linking moiety;

13 A is N or CH;

14 R<sup>2</sup> is hydrogen, alkyl, aryl, acyl, or allyl;

15 R<sup>3</sup> comprises the delivery-enhancing transporter;

16  $R^4$  is S, O,  $NR^6$  or  $CR^7R^8$ ;

17  $R^5$  is H, OH, SH or NHR<sub>6</sub>;

18 R<sup>6</sup> is hydrogen, alkyl, aryl, acyl or allyl;

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19	k and m are each independently selected from 1 and 2; and
20	n is 1 to 10.
1	11. The method of claim 10, wherein X is selected from the group
2	consisting of -C(O)O-, -C(O)NH-, -OC(O)NH-, -S-S-, -C(S)O-, -C(S)NH-, -NHC(O)NH-,
3	-SO <sub>2</sub> NH-, -SONH-, phosphate, phosphonate phosphinate, and CR <sup>7</sup> R <sup>8</sup> , wherein R <sup>7</sup> and R <sup>8</sup> are
4	each independently selected from the group consisting of H and alkyl.
1	12. The method of claim 10, wherein the conjugate comprises structure 3, Y
2	is N, and R <sup>2</sup> is methyl, ethyl, propyl, butyl, allyl, benzyl or phenyl.
1	13. The method of claim 10, wherein R <sup>2</sup> is benzyl; k, m, and n are each 1,
2	and X is -OC(O)
1	14. The method of claim 10, wherein the conjugate comprises structure 4;
2	R <sup>4</sup> is S; R <sup>5</sup> is NHR <sup>6</sup> ; and R <sup>6</sup> is hydrogen, methyl, allyl, butyl or phenyl.
1	15. The method of claim 10, wherein the conjugate comprises structure 4;
2	R <sup>5</sup> is NHR <sup>6</sup> ; R <sup>6</sup> is hydrogen, methyl, allyl, butyl or phenyl; and k and m are each 1.
1	16. The method of claim 1, wherein the conjugate comprises structure 6 as
2	follows:
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3	6
4	wherein:
5	R <sup>1</sup> comprises the compound;
6	X is a linkage formed between a functional group on the biologically

Y is a linkage formed from a functional group on the transport moiety

active compound and a terminal functional group on the linking moiety;

and a functional group on the linking moiety;

10	Ar is an aryl group having the attached radicals arranged in an ortho or
11	para configuration, which aryl group can be substituted or unsubstituted;
12	R <sup>3</sup> comprises the delivery-enhancing transporter;
13	$R^4$ is S, O, $NR^6$ or $CR^7R^8$ ;
14	R <sup>5</sup> is H, OH, SH or NHR <sub>6</sub> ;
15	$R^6$ is hydrogen, alkyl, aryl, arylalkyl, acyl or allyl;
16	R <sup>7</sup> and R <sup>8</sup> are independently selected from hydrogen or alkyl; and
17	k and m are each independently selected from 1 and 2.
1	17. The method of claim 16, wherein X is selected from the group
2	consisting of -C(O)O-, -C(O)NH-, -OC(O)NH-, -S-S-, -C(S)O-, -C(S)NH-, -NHC(O)NH-,
. 3	-SO <sub>2</sub> NH-, -SONH-, phosphate, phosphonate phosphinate, and CR <sup>7</sup> R <sup>8</sup> , wherein R <sup>7</sup> and R <sup>8</sup> are
4	each independently selected from the group consisting of H and alkyl.
1	18. The method of claim 16, wherein R <sub>4</sub> is S; R <sup>5</sup> is NHR <sup>6</sup> ; and R <sup>6</sup> is
2	hydrogen, methyl, allyl, butyl or phenyl.
1	19. The method of claim 1, wherein the conjugate comprises at least two
2	delivery-enhancing transporters.
1	20. The method of claim 1, wherein the conjugate is administered as an eye
2	drop.
1	21. The method of claim 1, wherein the conjugate is administered as an
2	injection.
1	22. The method of claim 1, wherein the delivery-enhancing transporter
2	comprises a non-peptide backbone.
1	23. The method of claim 1, wherein the delivery-enhancing transporter is
2	not attached to an amino acid sequence to which the delivery enhancing transporter molecule
3	is attached in a naturally occurring protein.

1	24. The method of claim 1, wherein the delivery-enhancing transporter
2	comprises from 5 to 25 guanidino or amidino moieties.
1	25. The method of claim 24, wherein the delivery-enhancing transporter
2	comprises between 7 and 15 guanidino moieties.
1	26. The method of claim 24, wherein the delivery-enhancing transporter
2	comprises at least 6 contiguous guanidino and/or amidino moieties.
1	27. The method of claim 1, wherein the delivery-enhancing transporter
2	consists essentially of 5 to 50 amino acids, at least 50 percent of which amino acids are
3	arginines or analogs thereof.
1	28. The method of claim 27, wherein the delivery-enhancing transporter
2	comprises 5 to 25 arginine residues or analogs thereof.
1	29. The method of claim 28, wherein at least one arginine is a D-arginine.
1	30. The method of claim 29, wherein all of the arginines are D-arginines.
1	31. The method of claim 27, wherein at least 70 percent of the amino acids
2	that comprise the delivery-enhancing transporter are arginines or arginine analogs.
1	32. The method of claim 27, wherein the delivery-enhancing transporter is
2	seven contiguous D-arginines.
1	33. The method of claim 1, wherein the compound is a therapeutic for a
2	disease selected from the group consisting of bacterial infections, viral infections, fungal
3	infections, glaucoma, anterior, intermediate, and posterior uveitis, optic neuritis, Leber's
4	neuroretinitis, retinitis, psudotumor/myositis, orbital myositis, hemangioma/lymphangioma
5	toxocariasis, behcet's panuveitis, inflammatory chorisretinopathies, vasculitis, dry eye
6	syndrome (Sjogren's syndrome), corneal edema, accommodative esotropia, cycloplegia,
7	mydriasis, reverse mydriasis, and macular degeneracy.

blood-brain barrier.

1	34. The method of claim 1, wherein the compound is selected from the
2	group consisting of anti-bacterial compounds, anti-viral compounds, anti-fungal compounds,
3	anti-protozoan compounds, anti-histamines, compounds that dialate the pupil, anethstetic
4	compounds, steroidal antiinflammatory agents, antiinflammatory analgesics,
5	chemotherapeutic agents, hormones, anticataract agents, neovascularization inhibitors,
6	immunosuppressants, protease inhibitors, aldose reductase inhibitors, corticoid steroids,
7	immunosuppressives, cholinergic agents, anticholinesterase agents, ,muscaric antagonists,
8	sympathomimetic agents, $\alpha$ and $\beta$ adrenergic antagonists, and anti-angiogenic factors.
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1	35. The method of claim 34, wherein the compound is selected from the
2	group consisting of acyclovir and cyclosporins.
1	36. The method of claim 1, wherein the compound is transported acrosss the